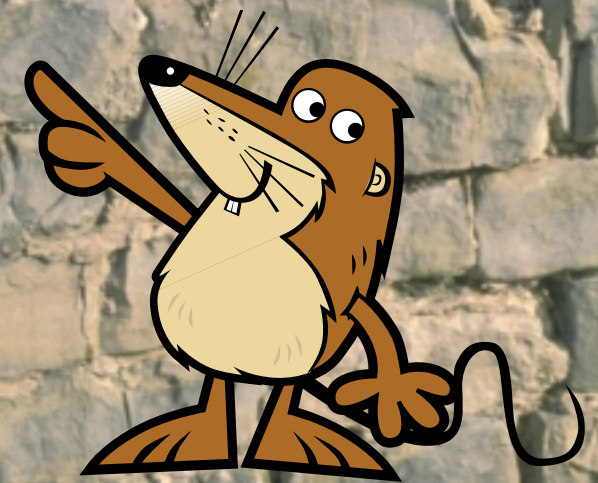


WHAT'S LIVING IN THE WALLS

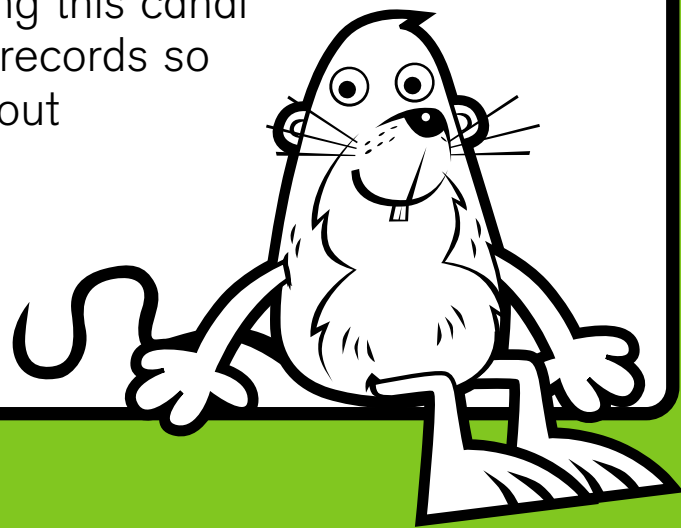
P U P I L W O R K B O O K 4

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WHAT YOU'RE GOING TO FIND OUT.

Pretend you're a scientist visiting this canal for the first time. There are no records so you're going to explore to find out about the plants and animals.

**WHAT WILL YOU NEED?**

- identification poster 4
- this pupil workbook
- clipboards, pencils and rubber
- magnifiers and/or bug boxes
- teaspoons and/or plastic cups
- metre rule
- orienteering compass
- camera, if possible

Activity 1: Botanists and zoologists

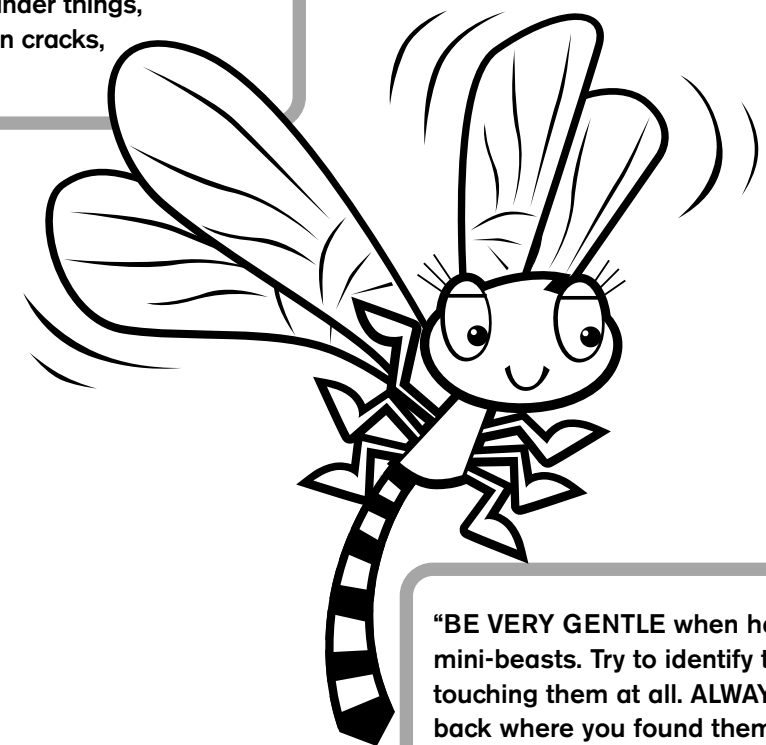
JOBS FOR ZOOLOGISTS (ANIMAL EXPERTS)

Keep your eyes “peeled” for small animals.
Another word for a small animal is “mini-beast”.

Use the magnifiers and bug boxes to look at the mini-beasts more closely. Use a teaspoon or plastic cup to carefully capture the mini-beast before putting it in the bug box.

- ① Use the identification poster to identify your mini-beasts.
- ② Write the name on the recording form and answer the questions. If you don't know its real name, make a name up, draw the mini-beast on a piece of paper and identify it later.

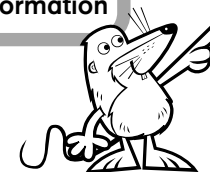
Don't be put off if you can't see any at first. They may be hiding under things, or be camouflaged. Look in cracks, holes and crevices.



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“BE VERY GENTLE when handling mini-beasts. Try to identify them without touching them at all. **ALWAYS** put them back where you found them.”

Turn onto the next page to
record all your information



ZOOLOGISTS' FORM

NAME
DATE
SITE
GRID REFERENCE

MINI-BEAST

1234

ANIMAL NAME

--	--	--	--

How many can you see
in your area?

--	--	--	--

How long is it?

--	--	--	--

Colour(s)

How many legs?

None
6 legs
8 legs
More than 8 legs

Where is the mini-beast?

Wall/building wall
Bridge
Fence
Path

MINI-BEAST

1234

What type of material is the
mini-beast on?

Brick
Stone
Mortar between
Concrete/paving slab
Metal

What is the habitat like?

Dry/damp surface
Shady/sunny
Smooth/rough surface
High/low position

What is it doing?

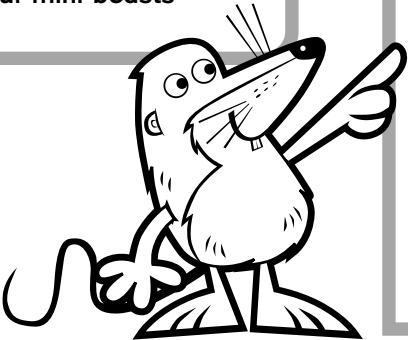
Staying still
Travelling
Eating
Other

What tells you that other
mini-beasts have been here?

--

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Use these boxes to draw
your mini-beasts



--

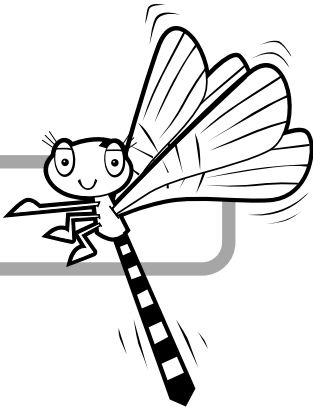
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JOB'S FOR BOTANISTS (PLANT EXPERTS)

Look carefully for any plants growing on your wall or bridge.
Use a magnifier to get a closer look.

- ① Use the identification poster to identify your plants.
- ② Write your name on the recording form below and answer the questions.

Try and look at plants where they are – do not pick them.



BOTANISTS' FORM

NAME
DATE
SITE
GRID REFERENCE

1 2 3 4

PLANT NAME

--	--	--	--

- ③ If you don't know a plant's real name, make a name up, draw the plant on a piece of paper and identify it later.

How many of this type of plant can you see in your area?

--	--	--	--

Height of plant in millimetres

--	--	--	--

Colour(s)

What is your plant growing on?

wall
bridge
fence
path

1	2	3	4

What type of material is the plant growing on?

brick
stone
mortar between
concrete
metal
wood

What else can you tell about the environment?

dry/wet
shady/sunny
rough/smooth

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--	--	--

Use these boxes to draw your plants.



Activity 2:
Life on the wall

You are now going to find out about why plants and animals live where they do and how they behave.

Imagine that the plants and animals on your wall or bridge are a community, just like a town full of people. The place where plants and animals live is called a habitat. Look at how the animals and plants live together, how they are suited to living in their habitat, and what sorts of jobs they do in their mini-communities.

Form into pairs or small groups. Make sure there is at least one Botanist and one Zoologist in each group. Choose a section of wall or bridge to look at, perhaps one you've already studied.

- ① Read through all the different sorts of jobs that animals and plants do on the next page of this guide. This will help you find out more about your mini-community.

- ② Write down the location you are studying at the top of the recording form.
- ③ Write the names of the animals in the boxes on the recording form.
- ④ Look at the list of jobs on the next page of this guide and decide what the main job is for each species. Is there more than one job?
- ⑤ Where do the mini-beasts prefer to be on the wall - high, low, or all levels?
- ⑥ Do you think each plant or animal is well suited for the work it does and where it lives?

LIFE ON THE WALL

NAME
SITE
GRID REFERENCE

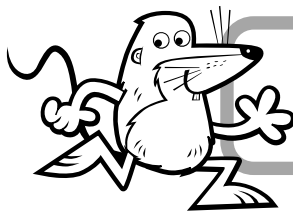
Community member	Role select from list	Home address where on the wall			Is it suited to its lifestyle?	
name of plant or animal	main job(s)	ground floor	middle	top floor	yes	no



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INFORMATION GUIDE

Job title	Job description	Who are they?
1 Food producer	Living things which can turn the sun's energy into other forms of energy (like sugar) which other residents can eat.	Mainly green plants, fungi (e.g. converting stored sunlight energy in dead wood)
2 Air conditioner	Living things which make the air breathable for others.	Plants do it for animals Animals do it for plants
3 Rubbish collector	Animals and fungi which help other residents by removing or breaking down dead materials.	Animals Fungi
4 Transporter	Animals which move things from one part of the community to another. Seeds and pollen often get moved in this way.	Animals with sticky or hairy outsides
5 Rock breakers	Plants which break down rock material into finer pieces which then become the makings of soil.	Any plant can do this • fresh rock face - lichens are best • cracked rocks - plants with roots are best
6 Soil builders	Living things who help make the soil a better place to grow by adding organic waste material, or reworking it all and mixing it together.	Bacteria - we can't see them but they do; plants with roots; fungi ; animals that eat dead material, and which burrow
7 Population controller	Animals which help control the numbers of the community so that it doesn't get too crowded. They also ensure that there is enough food, water and air for everyone.	Animals that catch other animals and eat them
8 Moonlighter	Living things that do other jobs at other times in the community – as well as their 'daytime' job.	most plants some animals

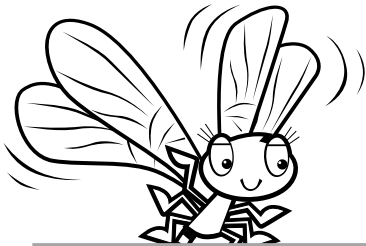


Use the scribble pads to draw some of your mini-beasts and plants

1

SCRIBBLE PAD

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2

SCRIBBLE PAD